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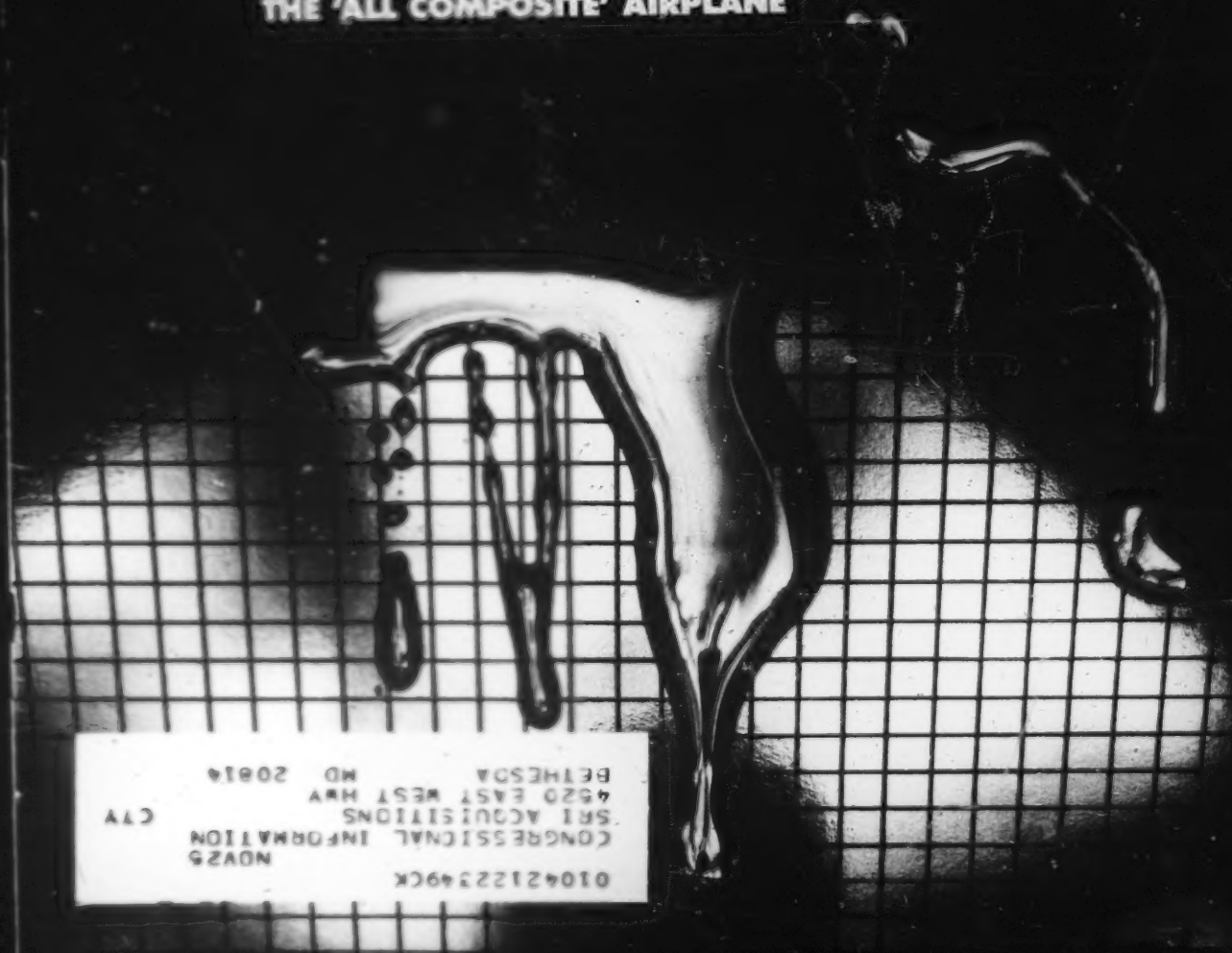
February 1, 1985

IRON AGE

MANUFACTURING MANAGEMENT

MATERIALS 2000: ELECTRONIC MATERIALS AND THE COMPUTER REVOLUTION

HOW MANUFACTURERS ARE BUILDING THE 'ALL COMPOSITE' AIRPLANE



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FEBRUARY 1, 1985 VOL. 228, NO. 3

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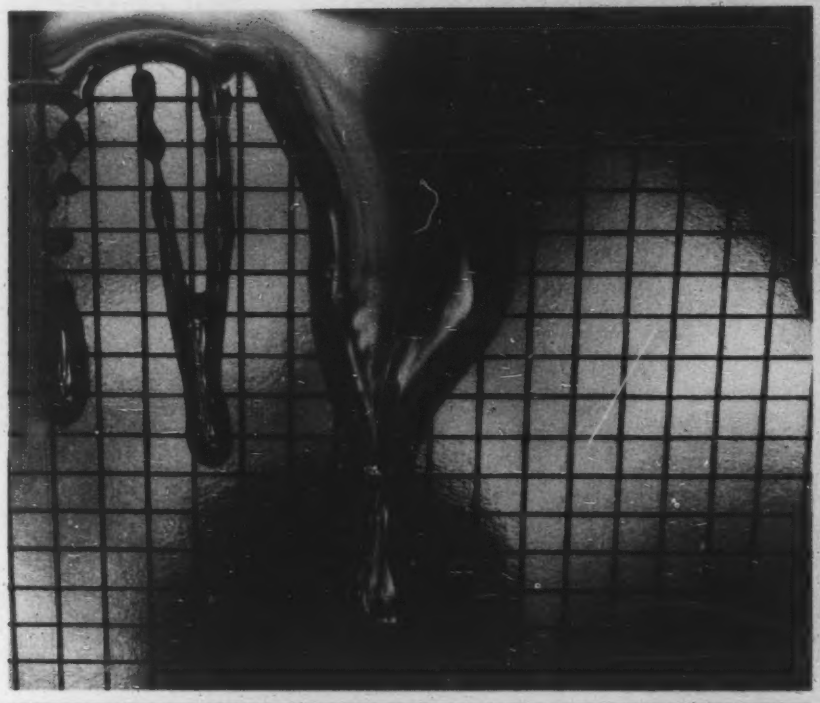

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Chilton
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PRICE & PRODUCTION DATA

(Effective January 7,1985)

Steel production by districts, thousands of tons

(000 omitted)	Last Week	Two Weeks Ago	Month Ago	Year Ago
Northeast Coast	148	120	147	145
Pittsburgh	162	115	184	172
Youngstown	64	62	88	76
Lake Erie	123	94	114	116
Detroit	132	133	136	101
Chicago	393	344	413	331
Cincinnati	79	77	88	66
St. Louis	63	48	71	39
Southern	156	131	164	132
Western	71	61	65	66
U.S. Production	1,391	1,185	1,470	1,251

Source: American Iron & Steel Institute

Lake Superior Ore Prices

51.50% Fe Natural delivered lower Lake ports. Rail transportation, handling and unloading may be charged to the account of the buyer. Coarse ore 80¢ premium.

Pellets (per iron unit natural ..... gross-ton 80.50-86.9*
Mesabi, regular-unscreened ..... gross-ton $32.53
Mesabi, non-bessemer ..... gross-ton $30.03-31.53**

*80.50¢—Pickands Mather as of 1/27/81.

86.9¢—U.S. Steel as of 3/15/82. Cleveland-Cliffs as of 2/26/82. Oglebay Norton as of 3/25/82, and Hanna Mining as of 2/26/82.

**Effective 8/1/83.

STEEL PRODUCTION, COMPOSITE PRICES

(Effective January 7,1985)

U.S. Steel Production	Last Week	Two Weeks Ago	To Date 1985	To Date 1984
Net tons, in thousands	1,391	1,185	1,391	1,498
Capability Utilization Rate	54.0	45.7	54.0	57.3

Composite Prices	This Week	Week Ago	Month Ago	Year Ago
Finished Steel Base* (¢/lb.—eff. 7/1/84)	27.582	27.582	27.582	26.822
Pig Iron** (Net ton = 2000 lbs.)	$213.00	$213.00	$213.00	$213.00
Scrap No. 1 hvy.*** (Gross ton = 2240 lbs.)	$ 80.50	$ 80.17	$ 78.50	$ 90.50
No. 2 bundles	$ 52.17	$ 51.50	$ 50.50	$ 58.50

Scrap Comparison (Gross Ton)

No. 1 steel, Pittsburgh	$ 83.50	$ 83.50	$ 79.50	$ 96.50
No. 1 steel, Philadelphia	77.50	76.50	75.50	89.50
No. 1 steel, Chicago	80.50	80.50	80.50	85.50
No. 1 bundles, Detroit	70.50	70.50	61.50	86.50
Low Phos., Youngstown	72.50	72.50	72.50	88.50
No. 1 mach'y cast., Pgh	66.50	66.50	66.50	79.50
No. 1 mach'y cast., Phila	98.50	98.50	98.50	97.50
No. 1 mach'y cast., Chi	111.50	111.50	110.50	115.50

*Finished Steel Composite. Weighted index of steel bars, shapes, plates, wire, rails, black pipe, hot and cold rolled sheets and strips.

**Pig Iron Composite. Based on average prices for basic and foundry pig iron at representative producing points within the U.S.

***Steel Scrap Composite. Average of No. 1 hvy. melting steel scrap and No. 2 bundles delivered to consumers at Pittsburgh, Philadelphia and Chicago.

NONFERROUS PRICES

(Effective January 7,1985) Prices obtained in trade based on representative tonnages per gross ton delivered to consumer unless otherwise stated.

Primary Metal Prices

(cents per lb.)	current price	last price	date of change
Aluminum (LME)	47.26	47.44	1/ 7/85
Copper (C)	63.00-65.00	64.00-65.00	12/20/84
Lead	19.00-23.00	20.00-23.00	1/ 3/85
Magnesium Ingot	148.00	143.00	5/25/84
Nickel (LME)	218.30	216.90	1/ 7/85
Titanium Sponge	555.00-585.00	555.00	4/29/82
Zinc	45.00	45.00-48.00	9/21/84

ALUMINUM: Avg. for last week & previous week. COPPER (C) = cathode. LEAD: common grade. MAGNESIUM: 99.8% pig, delivered. NICKEL: Avg. for last week & previous week. Canada. ZINC: high grade.

Antimony, American Laredo, Texas	$2.00
Beryllium-aluminum 5% Be per lb. contained Be	$230.00
Beryllium-copper, per lb. cont. Be	$140.00
Beryllium 97% powder 200	$178.00
Cadmium, ton lots	$1.25-1.55
Calcium, ton lots, crown	$3.58
Chromium, 99.8%	$3.75
Cobalt, 99%, cathode	$12.50
Gold per troy oz.	$298.25
Indium, dollars per troy oz.	$3.10-3.30
Iridium, dollars per troy oz.	$450.00
Magnesium sticks, 10,000 lbs.	$1.97
Mercury, per 76-lb. f.o.b. N.Y.	$313.00-322.00
Molybdenum, lb. tech. moly oxides, 20 lb. MO can	$6.85
Nickel electro (PDCR)	$3.29
Palladium, per troy oz.	$122.00
Platinum, per troy oz.	$278.00
Rhodium, per troy oz.	$815.00
Silver ingots, per troy oz.	$5.795
Vanadium	$6.00
Zirconium sponge	$12.00-17.00

(Per lb. unless otherwise noted)

Straits Tin Price

(U.S. cents per lb. EX-SMELTER, based on daily market in Penang in Malaysian dollars per kilo.)

Dec. 31—544.76
Jan. 1—Holiday
Jan. 2—541.59
Jan. 3—538.41
Jan. 4—538.55

Scrap Prices

Brass Mill Scrap

(Cents per lb; over 20,000 lbs. add 1¢ per lb)

	Solids	Turning
Copper	58½	49¼
Yellow brass	53½	50
Red brass	55	47¾
Comm. bronze	55⅞	48¼
Mang. bronze	56¼	45½
Free cutting rod ends	51	50

Custom Smelters Scrap

(Cents per lb., carload lots, del. refinery)

No. 1 copper wire	53
No. 2 copper wire	44
Light copper	35

Ingot Makers Scrap

(Cents per lb., carload lots, del. refinery)

No. 1 copper wire	49
No. 2 copper wire	40
Light copper	31
No. 1 composition	45
No. 1 comp. turnings	43
Hvy. yellow brass solids	33
Hvy. yellow brass turnings	31
Radiators	36

Aluminum

New mixed clips	35	— 36
Old sheet	33	— 34
Old cast	33	— 34
Clean dry borings	34	— 35

Dealers' Scrap

(Dealers' buying price f.o.b. New York in cents per pound)

Aluminum

Segregated clippings	32	— 33
Mixed I.C. clips	28	— 30
Old sheets and cast	24	— 26
Borings and turnings	22	— 23
Duraluminum clippings	25	— 26

Copper and Brass

No. 1 copper wire	44	— 46
No. 2 copper wire	37	— 38
Light copper	31	— 33
Radiators	32	— 33
No. 1 composition	40	— 41
No. 1 composition turnings	37	— 38
Cocks and faucets	29	— 31
Clean heavy yellow brass	28	— 30
Brass Pipe	28	— 29
New soft brass clippings	41	— 42

Lead

Heavy soft lead	9	— 10
Whole batteries	1	— 3
Type metal	16	— 17
Electrotype	13	— 14

Nickel

Nickel solids	115	—120
Nickel rod ends	115	—120
Nickel sheets, clips	115	—120
Nickel turnings	40	— 45

Zinc

New zinc clippings	18	— 19
Old diecast zinc	14	— 15

EFFECTIVE JANUARY 7, 1985

Effective January 7, 1985. Prices obtained in trade based on representative tonnages per gross ton delivered to consumer unless otherwise stated. Prices are the opinions of *Iron Age* editors and correspondents, based on contacts with dealers, brokers, generators and users in the industry on the effective date listed above.

Ferrous Scrap Prices

Pittsburgh

No. 1 hvy. melting	$ 83.00 to	$ 84.00
No. 2 hvy. melting	73.00 to	74.00
No. 1 dealer bundles	90.00 to	91.00
No. 1 factory bundles (auto)	92.00 to	93.00
No. 2 bundles	50.00 to	51.00
No. 1 bushelling	94.00 to	95.00
Machine shop turnings	10.00 to	11.00
Shoveling turnings	51.00 to	52.00
Cast iron borings	49.00 to	50.00
Low phos. punchings plate	101.00 to	102.00
Heavy turnings	71.00 to	72.00
No. 1 RR hvy. melting	93.00 to	94.00
Rails, 2 ft. and under	107.00 to	108.00
Scrap rails, random lgth	91.00 to	92.00
RR specialties	97.00 to	98.00
No. 1 machinery cast	66.00 to	67.00
Cupola cast	59.00 to	60.00
Heavy breakable cast	30.00 to	31.00
Stainless		
18-8 bundles and solids	570.00 to	580.00
18-8 turnings	470.00 to	480.00

Chicago

No. 1 hvy. melting	$ 60.00 to	$ 61.00
No. 2 hvy. melting	75.00 to	76.00
No. 1 dealer bundles	93.00 to	94.00
No. 1 factory bundles (auto)	93.00 to	94.00
No. 2 dealer bundles	57.00 to	58.00
No. 1 bushelling	91.00 to	92.00
Shredder scrap	92.00 to	93.00
Machine shop turnings	43.00 to	44.00
Mixed borings and turnings	44.00 to	45.00
Shoveling turnings	48.00 to	49.00
Cast iron borings	48.00 to	49.00
Low phos. forge crop	116.00 to	117.00
Low phos. punchings plate 1/4 in. and heavier	127.00 to	128.00
Low phos. 2 ft and under	122.00 to	123.00
No. 1 RR hvy. melting	89.00 to	90.00
Scrap rails random lgth	89.00 to	90.00
Reroller rails	102.00 to	103.00
Rails, 2 ft. and under	113.00 to	114.00
RR couplers and knuckles	94.00 to	95.00
RR carwheels	123.00 to	124.00
No. 1 machinery cast	111.00 to	112.00
Cupola cast	99.00 to	100.00
Stove plate	97.00 to	98.00
Steel car wheels	101.00 to	102.00
Stainless		
18-8 bundles and solids	510.00 to	520.00
18-8 turnings	430.00 to	440.00
430 bundles and solids	135.00 to	140.00
430 turnings	105.00 to	110.00

Philadelphia

No. 1 hvy. melting	$ 76.00 to	$ 79.00
No. 2 hvy. melting	67.00 to	70.00
No. 1 dealer bundles	89.00 to	92.00
No. 2 dealer bundles	47.00 to	50.00
No. 1 bushelling	89.00 to	92.00
Shredder scrap	98.00 to	101.00
Machine shop turnings	29.00 to	32.00
Mixed borings and turnings	29.00 to	32.00
Shoveling turnings	38.00 to	41.00
Low phos. 5 ft. and under	87.00 to	90.00
Low phos. 2 ft. punchings	110.00 to	113.00
Electric furnace bundles	98.00 to	101.00
RR specialties	87.00 to	90.00
Rails, 2 ft. and under	112.00 to	115.00
Cupola cast	76.00 to	79.00
Heavy breakable cast	57.00 to	60.00
No. 1 machinery cast	97.00 to	100.00

Detroit

Brokers buying prices per gross ton on cars.

No. 1 hvy. melting	$ 55.00 to	$ 56.00
No. 2 hvy. melting	54.00 to	55.00
No. 1 dealer bundles	70.00 to	71.00
No. 2 bundles	33.00 to	34.00
No. 1 bushelling	69.00 to	70.00
Drop forge flashings	42.00 to	43.00
Machine shop turnings	44.00 to	45.00
Mixed borings and turnings	21.00 to	22.00
Shoveling turnings	45.00 to	46.00
Cast iron borings	31.00 to	32.00
Heavy breakable cast	40.00 to	41.00
Mixed cupola cast	56.00 to	57.00
Automobile cast	80.00 to	81.00
Stainless		
18-8 bundles and solids	445.00 to	455.00
18-8 turnings	350.00 to	360.00
430 bundles and solids	105.00 to	115.00

Youngstown

No. 1 hvy. melting	$ 69.00 to	$ 72.00
No. 2 hvy. melting	52.00 to	55.00
No. 1 dealer bundles	81.00 to	84.00
No. 2 dealer bundles	35.00 to	38.00
Machine shop turnings	11.00 to	14.00
Shoveling turnings	16.00 to	19.00
Low phos. plate	71.00 to	74.00
Electric furnace bundles	69.00 to	72.00
Galvanized bundles	59.00 to	62.00

Cleveland

No. 1 hvy. melting	$ 57.00 to	$ 60.00
No. 2 hvy. melting	34.00 to	37.00
No. 1 dealer bundles	70.00 to	73.00
No. 1 factory bundles	79.00 to	82.00
No. 2 bundles	19.00 to	22.00
No. 1 bushelling	72.00 to	75.00
Machine shop turnings	6.00 to	9.00
Mixed borings and turnings	6.00 to	9.00
Shoveling turnings	7.00 to	10.00
Cast iron borings	10.00 to	13.00
Cut structural & plates 2 ft. and under	105.00 to	108.00
Low phos. plate/forge plate	105.00 to	108.00
Drop forge flashings	35.00 to	38.00
Foundry steel, 2 ft. & under	57.00 to	60.00
No. 1 RR hvy. melting	73.00 to	76.00
Rails, 2 ft. and under	112.00 to	115.00
Rails, 18 in. and under	113.00 to	116.00
Steel axle turnings	58.00 to	59.00
Railroad cast	89.00 to	91.00
No. 1 machinery cast	99.00 to	101.00
Cupola cast	55.00 to	58.00
Stove plate	41.00 to	44.00
Stainless		
18-8 bundles	375.00 to	385.00
18-8 turnings	325.00 to	335.00
430 bundles	80.00 to	85.00

Buffalo

Brokers buying prices per gross ton on cars.

No. 1 hvy. melting	$ 63.00 to	$ 64.00
No. 2 hvy. melting	52.00 to	53.00
No. 1 bushelling	74.00 to	75.00
No. 1 dealer bundles	74.00 to	75.00
No. 2 bundles	37.00 to	38.00
Machine shop turnings	11.00 to	12.00
Mixed boring and turnings	12.00 to	13.00
Shoveling turnings	17.00 to	18.00
Cast iron borings	20.00 to	21.00
Low phos. plate	94.00 to	95.00
Structural and plate 2 ft. and under	97.00 to	98.00
Rails, 2 ft. and under	97.00 to	98.00
Scrap rails, random lgth	74.00 to	75.00
No. 1 machinery cast	80.00 to	81.00
No. 1 cupola cast	60.00 to	61.00

St. Louis

No. 1 hvy. melting	$ 61.00 to	$ 62.00
No. 2 hvy. melting	50.00 to	51.00
Foundry steel, 2 ft	61.00 to	62.00
No. 1 dealer bundles	61.00 to	62.00
No. 2 bundles	45.00 to	46.00
Machine shop turnings	17.00 to	18.00
Shoveling turnings	23.00 to	24.00
Cast iron borings	27.00 to	28.00
No. 1 RR hvy. melting	61.00 to	62.00
Rails, random length	65.00 to	66.00
Rails, 18 in. and under	81.00 to	82.00
RR specialties	80.00 to	81.00
Cupola cast	74.00 to	75.00
Heavy breakable cast	52.00 to	53.00
Stove plate	89.00 to	90.00
Steel car wheels	94.00 to	95.00
Rerolling rails	78.00 to	79.00
Unstripped motor blocks	61.00 to	62.00

Birmingham

No. 1 hvy. melting	$ 71.00 to	$ 72.00
No. 2 hvy. melting	66.00 to	67.00
No. 1 dealer bundles	77.00 to	78.00
No. 2 bundles	48.00 to	49.00
No. 1 bushelling	77.00 to	78.00
Shredder scrap	96.00 to	97.00
Machine shop turnings	26.00 to	27.00
Shoveling turnings	41.00 to	42.00
Cast iron borings	38.00 to	39.00
Electric furnace bundles	71.00 to	72.00
Elec. furnace, 3 ft. & under	71.00 to	72.00
Structural and plate, 2 ft	100.00 to	101.00
Structural and plate, 4 ft	92.00 to	93.00
No. 1 RR hvy. melting	92.00 to	93.00
Scrap rails, random lgth	87.00 to	88.00
Rails, 2 ft. and under	103.00 to	104.00
Angles and splice bars	92.00 to	93.00
No. 1 cupola cast	86.00 to	87.00
Unstripped motor blocks	67.00 to	68.00

Cincinnati

Brokers buying prices per gross ton on cars.

No. 1 hvy. melting	$ 51.00 to	$ 52.00
No. 2 hvy. melting	50.00 to	51.00
No. 1 dealer bundles	62.00 to	63.00
No. 2 bundles	25.00 to	26.00
Machine shop turnings	4.00 to	5.00
Shoveling turnings	6.00 to	7.00
Cast iron borings	17.00 to	18.00
Low phos. 18 in. and under	83.00 to	84.00
Rails, random length	65.00 to	66.00
Rails, 2 ft. and under	78.00 to	79.00
No. 1 cupola cast	57.00 to	58.00
Heavy breakable cast	25.00 to	26.00
Drop broken cast	75.00 to	76.00

New York

Brokers buying prices per gross ton on cars.

No. 1 hvy. melting	$ 47.00 to	$ 48.00
No. 2 hvy. melting	38.00 to	39.00
No. 2 dealer bundles	23.00 to	27.00
Mixed borings and turnings	11.00 to	13.00
Machine shop turnings	6.00 to	7.00
Shoveling turnings	14.00 to	15.00
Clean cast, chem. borings	35.00 to	36.00
No. 1 machinery cast	89.00 to	90.00
Mixed yard cast	50.00 to	51.00
Heavy breakable cast	12.00 to	12.00
Stainless		
18-8 prepared solids	490.00 to	510.00
18-8 turnings	390.00 to	410.00
430 prepared solids	90.00 to	110.00
410 solids	80.00 to	90.00

Boston

Brokers buying prices per gross ton on cars.

No. 1 hvy. melting	$ 58.00 to	$ 60.00
No. 2 hvy. melting	48.00 to	50.00
No. 1 dealer bundles	58.00 to	60.00
No. 2 bundles	35.00 to	37.00
No. 1 bushelling	65.00 to	67.00
Shredder scrap	65.00 to	67.00
Machine shop turnings	10.00 to	12.00
Shoveling turnings	18.00 to	20.00
No. 1 machinery cast	81.00 to	86.00
Mixed cupola cast	48.00 to	50.00
Heavy breakable cast	8.00 to	10.00

San Francisco

No. 1 hvy. melting	$ 42.00 to	$ 44.00
No. 2 hvy. melting	36.00 to	38.00
No. 1 dealer bundles	33.00 to	35.00
No. 2 dealer bundles	18.00 to	20.00
Machine shop turnings	6.00 to	8.00
Cast iron borings	6.00 to	8.00
No. 1 cupola cast	81.00 to	83.00

Los Angeles

No. 1 hvy. melting	$ 45.00 to	$ 47.00
No. 2 hvy. melting	38.00 to	40.00
No. 1 dealer bundles	36.00 to	38.00
No. 2 dealer bundles	18.00 to	20.00
Machine shop turnings	12.00 to	14.00
Shoveling turnings	8.00 to	10.00
Cast iron borings	6.00 to	8.00
Elec. furnace, 1 ft. and under (foundry)	74.00 to	76.00
No. 1 cupola cast	75.00 to	77.00

Seattle

No. 1 hvy. melting	66.00 to	68.00
No. 2 hvy. melting	57.00 to	59.00
No. 2 bundles	40.00 to	42.00
No. 1 cupola cast	92.00 to	93.00
Mixed yard cast	82.00 to	84.00

Hamilton, Ont.

Brokers buying prices per gross ton on cars.

No. 1 hvy. melting	$ 86.00
No. 2 hvy. melting, cut 2 ft. and under	78.00
No. 1 dealer bundles	84.00
No. 2 bundles	60.00
Mixed steel scrap	57.00
Bush. new fact. prep'd	86.00
Bush. new fact. unprp'd	75.00
Machine shop turnings	31.00
Short steel turnings	33.00
Mixed borings and turnings	25.00
Cast scrap	75.00

Houston

Brokers buying prices per gross ton on cars.

No. 1 hvy. melting	$ 72.00 to	$ 73.00
No. 2 hvy. melting	59.00 to	60.00
No. 2 bundles	44.00 to	45.00
Machine shop turnings	12.00 to	13.00
Crushed turnings	29.00 to	31.00
Shredder scrap	76.00 to	77.00
Cut structural plate, 2 ft. and under	102.00 to	103.00
Cut structural plate, 5 ft. and under	86.00 to	87.00
Unstripped motor blocks	60.00 to	61.00
Cupola cast	80.00 to	81.00

PRODUCER KEY
With Principal Offices

A7 Armco Inc., Middletown, Ohio
A8 Atlantic Steel Co., Atlanta, Ga.
A11 Atlantic Wire Co., Branford, Conn.

B1 Baron Drawn Steel Corp., Toledo, Ohio
B3 Bethlehem Steel Corp., Bethlehem, Pa.
B4 Blair Strip Steel Co., New Castle, Pa.
B5 Bliss & Laughlin Steel Co., Harvey, Ill.

C6 CF&I Steel Corp., Pueblo, Colo.
C10 Copperweld Steel Co., Warren, Ohio
C16 Connors Steel Co., Birmingham, Ala.
C20 Calumet Steel Div., Chicago Heights, Ill.

D1 Detroit Strip Div., Cyclops Corp.

E4 Eliot Bros. Steel Co., New Castle, Pa.

F1 Firth Sterling, Inc., McKeesport, Pa.

G2 Granite City Steel Co., Granite City, Ill.
G3 Great Lakes Steel Division, National Steel Corp., Ecorse, Mich.
G4 Greer Steel Co., Dover, Ohio
G5 Green River Steel Corp., Owensboro, Ky.
G6 Gibraltar Steel Corp., Buffalo, N. Y.
G7 Georgetown Steel Corp., Georgetown, S.C.

H1 Hercules Drawn Steel Corp., Livonia, Mich.

I2 Ingersoll Steel Div., Newcastle, Ind.
I3 Inland Steel Co., Chicago, Ill.
I4 Interlake Steel Corp., Chicago

J2 Jessop Steel Corp., Washington, Pa.
J3 Jones & Laughlin Steel Corp., Pittsburgh
J4 Joslyn Mfg. & Supply Co., Chicago
J5 Judson Steel Corp., Emeryville, Calif.

K2 Keystone Consolidated Industries, Inc.
K3 Kentucky Electric Steel Co., Ashland, Ky.
K5 Kemco Div., Foote Mineral Co., Keokuk, Ia.

L2 La Salle Steel Co., Chicago
L3 Lone Star Steel Co., Dallas
L4 Lukens Steel Co., Coatesville, Pa.
L5 Litho-Strip Corp., Chicago

M2 McLouth Steel Products Corp., Detroit
M8 Mill Strip Products Div., National Steel Service Center, National Steel Corp.
M9 Moltrup Steel Products Co., Beaver Falls, Pa.
M11 Midwest Steel Div., National Steel Corp., Portage, Ind.

N1 Northeast Precision Steel Co., Boston
N4 Northwestern Steel & Wire Co., Sterling, Ill.
N6 Northwest Steel Rolling Mills, Seattle
N9 Nelsen Steel & Wire Co., Chicago, Ill.
N10 North Star Steel Co., Saint Paul, Minn.

O2 Oregon Steel Mills, Portland, Ore.

P2 Phoenix Steel Corp., Claymont, Del.
P15 Philadelphia Steel and Wire Corp., Phila.

R3 Republic Steel Corp., Cleveland
R4 Ramco Steel Co., Buffalo, N. Y.
R5 Roblin Steel Corp., North Tonawanda, N.Y.
R7 Rome Strip Steel Co., Rome, N. Y.

S1 Sharon Steel Corp., Sharon, Pa.
S7 Stanley Works, New Britain, Conn.
S8 Superior Drawn Steel Co., Monaca, Pa.
S10 Seneca Steel Service, Buffalo, N. Y.
S16 Southern Precision Steel Co., Gulfport, Miss.

T4 Thomas Steel Strip Co., Warren, Ohio
T5 Timken Co., Steel Division, Canton, Ohio
T7 Texas Steel Co., Fort Worth, Tex.
T9 Triumph Electro Corp., Chicago, Ill.
T10 Tennessee Forging Steel Corp., Harriman, Tenn.
T11 Teledyne Columbia-Summerill, Carnegie, Pa.

U1 United States Steel Corp., Pittsburgh, Pa.

W3 Weirton Steel Corp., Weirton, West Va.
W5 Wheeling-Pittsbugh Steel Corp.
W7 Wilson Steel & Wire Co., Chicago
W10 Wyckoff Steel Div., Ampco-Pittsbugh Corp., Pittsbugh
W14 Whittaker Steel Strip Div., Detroit Mich.

STEEL SERVICE CENTER PRICES — Price, Dollars per 100 lb

Prices are based on list prices reported to *Iron Age* by a number of metal service centers deemed representative by *Iron Age* and then weighted based in part on the reports received each month. Prices are not intended to reflect the actual transaction prices obtained by any individual metal service center.

Cities*	Sheets			Strip	Plates	Shapes	Bars		Alloy Bars			
	Hot-Rolled (10 gage)	Cold-Rolled (20 gage)	Galvanized (16 gage)	Hot-Rolled Strip	Plates	Standard Structurals	Hot-Rolled (merchant)	Cold Finished	Hot-Rolled 8620 As Rolled	Hot-Rolled 4140 Annealed	Cold-Drawn 8620 As Rolled	Cold-Drawn 4140 Annealed
Atlanta	29.65	33.55	34.48	31.63	27.02	23.28	19.55	31.25	34.34	50.60	69.58	73.19
Baltimore	26.90	30.72	35.71	36.82	32.66	28.80	22.60	36.40	51.69	56.95	63.60	69.98
Birmingham	26.60	32.82	34.59	31.64	26.64	23.01	19.99	30.91	49.31	58.90	68.10	74.43
Boston	34.94	40.19	45.64	47.54	33.25	30.06	23.59	40.29	47.92	51.02	58.48	63.50
Buffalo	31.10	35.68	41.89	40.15	30.60	26.15	19.86	36.70	44.15	47.85	53.92	59.84
Chicago	28.46	34.62	37.60	32.74	22.40	22.76	18.03	28.87	37.31	41.09	46.52	52.75
Cincinnati	29.60	34.58	37.16	30.85	23.14	20.75	17.96	32.96	37.16	42.54	46.63	52.44
Cleveland	28.48	34.22	37.48	36.74	23.60	25.56	19.60	36.35	38.19	44.50	47.48	53.93
Denver	31.44	38.19	36.22	37.09	27.40	25.80	20.10	43.00	50.55	57.95	65.95	70.19
Detroit	29.21	35.20	37.87	31.39	23.13	23.14	16.96	32.71	37.18	42.51	46.81	53.49
Houston	27.67	28.71	31.69	39.21	26.73	27.73	22.60	40.15	45.96	52.87	58.95	66.14
Kansas City	30.72	36.98	39.70	34.01	27.10	22.95	17.90	33.12	39.60	45.40	49.73	54.87
Los Angeles	27.01	31.33	37.84	34.31	28.39	32.31	26.07	38.05	50.88	57.10	63.15	70.64
Memphis	26.37	32.51	35.34	33.57	27.75	26.63	21.40	33.87	36.78	49.96	59.80	69.44
Milwaukee	28.76	34.19	36.99	33.06	23.79	25.12	17.58	29.01	36.58	41.65	45.66	52.60
New York	32.47	38.99	42.55	43.38	32.66	25.31	21.06	40.05	40.90	46.40	51.84	55.34
Philadelphia	28.10	38.99	41.23	43.50	31.05	28.11	18.99	36.44	45.80	50.25	60.22	65.42
Pittsburgh	35.27	40.97	45.23	43.45	37.60	30.44	21.29	28.74	38.43	44.64	49.90	54.10
Portland	28.96	32.08	38.73	36.93	32.88	34.78	27.87	44.85	49.78	57.74	70.44	.....
San Francisco	26.94	31.55	37.04	34.48	27.78	30.19	25.65	38.70	50.70	57.69	63.90	70.05
Seattle	23.61	30.12	36.65	32.95	22.02	27.32	25.81	39.14	53.03	61.70	69.75	74.63
Spokane	21.21	30.42	35.65	38.02	35.00	33.77	21.97	43.01	43.20	47.52	.....	58.32
St. Louis	29.11	34.60	37.31	34.59	23.89	22.90	18.15	33.87	38.12	43.51	47.85	53.69
St. Paul	28.87	33.61	35.61	38.36	23.81	23.73	17.70	33.96	37.52	42.72	47.09	53.31

Base Quantities. All HR products may be combined for quantity. Hot-rolled sheet, 10 ga x 36 x 96—120; Cold-rolled sheet, 20 ga x 36 x 120, Galv. sheet—16 ga x 36—120; Hot-rolled strip—1/8" x 1"; Plate 1/4" x 84"; Shapes—I-Beams 6 x 12.5; Hot-rolled bar—Rounds 3/4-2-15/16; Cold finished bar—C 1018—1" rounds, Alloy bar—Hot-rolled 8620—1-5/8" round; Cold drawn—1" round; Hot-rolled 4140—1- 5/8" round; Cold drawn—1" round. Check local supplier for additions or deductions from base.

*Prices at all points include metropolitan delivery charges.

Codes identify Producers listed on p. 60. (Prices quoted are mill base prices in cents per pound unless otherwise noted and do not reflect extras or surcharges.)
N.A.=Not available.

Billets, Blooms, Slabs

(Dollars per net ton)

Carbon Rerolling, Midwest	
W5	$366.00
N4	$366.00
West	
C6	$346.00
Carbon Forging, East	
B3(2), C10, U1	$473.00
R3	$453.00
Midwest	
R3, W5	$453.00
S1, U1, I3	$473.00
C10	$473.00
K2	$473.00
West	
B3(2)	$463.00
C6	$453.00
Alloy, East	
R3	$492.00
B3, U1, C10	$512.00
Midwest	
W5	$492.00
U1, C10, I3	$512.00
R3	$492.00
S1	$512.00
West	
B3	$502.00
C6	$469.00

Piling Sheet Steel

(cents per lb)

Midwest	
U1	$ 26.45

Structurals

Carbon, East	
B3	$ 22.90
U1, J3	$ 23.90
Midwest	
C20	$ 22.90
W8	$ 22.90
I3, T10, U1, N4	$ 23.90
West	
C6	$ 25.10
B3(2)	$ 21.65
South	
C16, U1	$ 23.90
T10	$ 22.90
A8	$ Cmp.
High-Strength, Low Alloy, East	
B3	$ 22.90
U1, J3	$ 23.90
Midwest	
N4	$ 23.90
W8	$ 24.15
U1	$ 23.90
I3	$ 23.90
West	
B3	$ 21.65
South	
U1, C16	$ 23.90
Wide Flange, Carbon, East	
B3	$ 22.90
U1, J3	$ 23.90
Midwest	
U1	$ 23.90
N4	$ 23.90
I3	$ 23.90
West	
C6	$ 24.15

Strip

Hot-Rolled, Carbon, Cut II Edge—all widths, East	
U1, B3	$ 23.75
J3	$ 22.05
Midwest	
D1	$ 22.05
I4	$ 22.85
J3, W3	$ 22.05
G2, G3	$ 23.45
N4	$ 22.55
W5, S1, A7	$ 23.75
U1, B3, I3	$ 22.75
M2, R3	$ 22.05
West	
B3	$ 26.55
South	
R3	$ 22.05
Cold-Rolled, Carbon Max. 25%, East	
E4	$ 29.75
S10	$ 29.60
P15	$ 24.80
B4	$ 36.60
G6	$ 36.175
Midwest	
I4	$ 38.30
W14	$ 32.80
J4	$ 34.05
S1	$ 37.05
High-Strength, Hot-Rolled, Low Alloy, Cut Edge & Mill Edge—all widths, (plus extras)*	
Midwest	
M2, R3, W3, J3, I3	$ 22.05
G2, G3	$ 23.45
S1	$ 23.75
A7	$ 25.35
South	
R3	$ 22.05
High-Strength, Cold-Rolled, Low Alloy, Mill Edge	
Midwest	
S1	$ 37.05
Alloy, Hot-Rolled, Midwest (plus extras)*	
S1	$ 26.10
I4	$ 25.20
Alloy, Cold-Rolled, East (plus extras)*	
E4,M8	$ 43.35
B4	$ 47.25
P15	$ 32.10
Midwest	
I4	$ 44.30
S1	$ 44.80

Sheets

Hot-Rolled, Carbon (18 Ga & Hvyr), East	
B3	$ 23.75
J3	$ 22.05
U1	$ 23.75
Midwest	
M2, R3, W3	$ 22.05
D1, J3	$ 22.05
G2, G3	$ 23.45
I4	$ 22.45
U1, W5, S1, B3, I3, A7	$ 23.75
West	
U1	$ 24.25
South	
R3	$ 22.05
Cold-Rolled, East, Class I	
B3(2)	$ 28.15
J3	$ 26.15
U1	$ 28.15
Midwest	
R3, M2, W3	$ 26.15
G2, G3, M11	$ 27.85
I4	$ 22.00
J3	$ 26.15
D1	$ 26.15
U1, W5, S1, B3, I3, A7	$ 28.15
West	
U1	$ 28.65
South	
R3	$ 24.65
Galvanized (hot-dipped), East	
B3(2)	$ 30.30
U1	$ 30.30
Midwest	
J3, D1, W3	$ 28.00
R3, Y1	$ 28.00
G2, M11	$ 30.00
U1, W5, S1, I3, A7	$ 30.30
West	
U1	$ 30.80
South	
R3	$ 28.00
Enameling, Midwest	
U1, S1, I3, A7	$ 29.65
J3	$ 27.65
Long-Terne, Midwest	
W5, A7	$ 31.65
U1	$ 31.65
R3	$ 29.35

Wire Rod

East	
B3(2)	$ 22.35
Midwest	
N4, K2	$ 22.35
U1	$ 24.10
A7	$ 22.00
West	
C6	$ 21.45
South	
G7	$ 22.35

Tinplate

	per base box
Electrolytic Tinplate Single Reduced (70 lb) East	
J3	$ 26.29
U1	$ 27.74
B3	$ 27.54
Midwest	
U1	$ 27.74
J3	$ 26.29
M11	$ 27.24
W3	$ 26.29
W5	$ 27.74
West	
U1	$ 28.24
South	
U1	$ 27.74
Double Reduced (55 lb)**	
Midwest	
M11	$ 21.87
J3	$ 21.49
U1	$ 22.37
W3	$ 21.49
W5	$ 22.37
West	
U1	$ 22.87
South	
U1	$ 22.37
Black Plate Single Reduced (75 lb)*	
East	
B3	$ 24.31
Midwest	
J3	$ 24.01
I3, W5	$ 24.57
W3	$ 24.01
U1, M11	$ 25.26
West	
U1	$ 25.26
Double Reduced (55 lb) East	
B3	$ 20.49
Midwest	
M11	$ 19.70
W5	$ 19.70
J3	$ 18.93
W3	$ 18.93
U1	$ 19.70
West	
U1	$ 19.70
South	
U1	$ 19.70

*70 lb—base weight extra 45¢
**50 lb—base weight extra $1.40

Bars

Carbon Steel, Hot-Rolled (Special quality) East	
R3, K3	$ 25.80
R5	$ 25.80
J3	$ 25.80
U1, C10, B3(3)	$ 27.05
Midwest	
I4	$ 23.95
U1, I3	$ 27.05
R3, T10, C20, N4	$ 25.80
K2	$ 25.80
I3	$ 22.00
A7	$ 20.25
West	
B3	$ 25.80
C6	$ 24.45
South	
A8	$ 20.65
C16	$ 25.80
Cold-Finished Carbon, East	
A11	$ 22.15
R3	$ 33.75
T11, S8	$ 31.00
J3(4), L2	$ 31.00
M8, W10	$ 31.00
N1	$ 24.475
R4	$ 33.25
B4	$ 33.25
C10	$ 31.00
Midwest	
W10, R3, M9	$ 33.25
J3	$ 31.00
B1	$ 33.45
L2	$ 30.75
N9	$ 31.00
W14	$ 22.20
B5	$ 34.75
West	
R3	$ 37.15
South	
J3	$ 34.00
C16	$ 24.40
J3	$ 31.95
Alloy, Hot-Rolled, East	
R5, K3	$ 27.95
R3, J3	$ 27.95
U1, B3(2), C10	$ 29.20
Midwest	
R3	$ 27.95
I3, C10, U1	$ 29.20
I4	$ 26.10
I3	$ 23.50
A7	$ 20.25
West	
B3	$ 27.95
C6	$ 26.60
South	
A8	$ 22.00
Alloy, Hot-Rolled, East	
L2	$ 35.20
R3, N1	$ 37.90
R4	$ 37.10
AF11	$ 30.50
J3, W10, L2	$ 34.85
T11, S8	$ 34.85
C10	$ 34.85
Midwest	
R3	$ 37.35
J3, W10, C10	$ 34.85
B1	$ 37.30
N9	$ 34.85
L2	$ 34.85
B5	$ 38.60
M9	$ 37.10
West	
R3	$ 40.75
South	
J3	$ 35.85
C16	$ 28.00

Plates

Carbon Steel, East	
B3	$ 23.25
L4, U1	$ 25.75
P2	$ 23.25
J3	$ 26.75
Midwest	
B3	$ 23.25
I3	$ 25.75
J3, A7	$ 22.80
U1, I4, S1	$ 25.75
R3	$ 26.75
West	
C6	$ 24.25
U1, B3	$ 25.75
O2	$ 23.00
South	
R3	$ 25.75
U1	$ 25.75
Alloy East	
B3	$ 31.05
U1, L4	$ 33.55
P2	$ 33.55
J3	$ 34.55
Midwest	
B3	$ 31.05
G2, G3	$ 33.55
I4, U1	$ 33.55
West	
B3	$ 33.55
O2	$ 31.00
South	
U1	$ 33.55

Wire

Carbon Steel Wire, East	
B3	$ 27.10
A11	$ 22.15
Midwest	
R3	$ 24.60
N4, W7	$ 27.40
K2	$ 24.20
South	
A8	$ 22.85
West	
C6	$ 24.95

ORDERS TRENDING UPWARD AGAIN

Up went the economy in November, causing some confusion among analysts.

After three months of declines in new orders for manufactured goods, they went up in November causing "experts" to return to their data boards for help. "Yes, businesses have been cautious," conceded Robert Ortner, U.S. Commerce Department economist, "but things are trending upward again."

Overall orders for manufactured goods rose 4.3 pct in November compared with October to $193.8 billion, the Commerce Department reported. It was the largest increase in 17 months, the government said. At the same time inventories dropped slightly—0.1 pct—after having risen for 10 consecutive months. Mr. Ortner said the inventory decline showed that businesses were being cautious and "avoiding any unnecessary pileup they would have to unload later."

November new orders for durable goods rose 7.7 pct to $103.5 billion compared with $96.1 billion in October. After 11 months, gains lead declines, six months to five.

Capital goods orders in both nondefense and defense industries rose in November. The former category—a key indicator of business investment plans—rose 8.3 pct to $27.5 billion. Defense industries capital goods orders rose an even 100 pct to $9.8 billion from $4.9 billion in October.

In metalworking, machine tools total orders in November continued an erratic pattern, dropping 33.7 pct to $212.1 million.

Primary metals orders rose 1.9 pct for the second consecutive month, reaching $10.8 billion.

Of the 24 new orders categories shown, 14 were up in November, seven were down and three were unchanged.

Billions of Dollars, Seasonally adjusted Monthly Total, unless otherwise noted Source: U.S. Dept of Commerce		Latest Month or Qtr.	Previous Month or Qtr.	Same Period Year Ago
CAPITAL EXPENDITURES (Annual Rates)				
U.S. Industry, Total	3rd Qtr.	$316.2	$303.8	$270.0
Manufacturing, Total	3rd Qtr.	135.5	126.0	111.1
Manufacturing, Durable Goods	3rd Qtr.	64.8	58.3	53.0
Mining Industry	3rd Qtr.	13.2	13.3	11.9
KEY INDICATORS, Durable Goods Manufacturing				
New Orders	Nov.	103.5	96.1	96.7
Shipments	Nov.	101.7	100.4	92.4
Inventories	Nov.	190.3	190.5	171.0
Unfilled Orders	Nov.	346.2	344.4	321.4
NEW ORDERS, METALWORKING				
Capital Goods Producers, Nondefense Industries	Nov.	27.5	25.4	24.7
Capital Goods Producers, Defense Industries	Nov.	9.8	4.9	7.9
Primary Metals, Total	Nov.	10.8	10.6	11.7
Steel (SIC 331)	Nov.	4.6	4.6	4.5
Iron & Steel Castings (SIC 332)	Nov.	1.2	1.2	1.3
Nonferrous Metals	Nov.	5.0	4.8	5.9
Nonelectrical Mach.-Equip. Industries, Total	Nov.	18.1	17.0	16.1
Engines & Turbines	Nov.	1.3	0.7	1.2
Farm Machinery & Equipment (Shipments)	Nov.	0.8	1.0	1.1
Construction, Mining & Mat. Hdlg. Equip	Nov.	2.7	2.9	2.7
General Industrial Machinery	Nov.	1.5	1.4	1.2
Fluid Power Equipment** (Index-1972=100)	Nov.	267.0	304.0	289.0
Metalworking Machinery	Nov.	1.1	0.8	0.7
Machine Tools, Total ($Mill., Unadjusted)***	Nov.	212.1	283.6	160.2
Machine Tools, Metalcutting***	Nov.	160.2	191.8	115.3
Machine Tools, Metalforming***	Nov.	52.0	91.8	44.9
Electrical Mach. & Equip. Industries, Total	Nov.	15.0	14.6	14.5
Elec. Transmission Equip. & Ind. Apparatus	Nov.	2.0	2.1	1.8
Household Appliances	Nov.	1.3	1.4	1.3
Communication Equipment	Nov.	5.1	4.8	4.7
Transportation Equip. Industrial, Total	Nov.	28.1	21.9	24.8
Motor Vehicles & Parts (Shipments)	Nov.	16.7	15.9	14.3
Aircraft, Missiles & Parts	Nov.	9.8	5.3	7.7
Shipbuilding & Military Tanks	Nov.	1.2	0.5	1.8
Fabricated Metal Products, Total	Nov.	12.2	12.1	11.0
Instruments, Total	Nov.	4.7	4.7	4.2

*Est.—Commerce Dept; **Source: National Fluid Power Assn.; ***Source: NMTBA.